

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1           **Claim 1 (original):** A pressure sensor comprising:  
2            a sensor unit in which a piezoelectric layer containing a  
3            piezoelectric ceramic material is sandwiched by a plurality  
4            of electrodes;  
5            a covering layer which covers the sensor unit; and  
6            heat insulating means made from an expandable  
7            synthetic resin which covers the circumference of the  
8            covering layer.

1           **Claim 2 (original):** A pressure sensor as set forth in  
2        Claim 1, wherein the sensor unit is a cable-like sensor  
3        comprising a primary electrode which makes up a core unit,  
4        a piezoelectric layer which covers the primary electrode  
5        and a secondary electrode which covers the outside of the  
6        piezoelectric layer.

1           **Claim 3 (original):** A pressure sensor as set forth in  
2        Claim 1, wherein the sensor unit is a sheet-like sensor  
3        which is formed such that a piezoelectric layer is  
4        sandwiched by a primary electrode and a secondary  
5        electrode.

1           **Claim 4 (currently amended):** A pressure sensor as set  
2       forth in ~~any of Claims 1 to 3~~claim 1, wherein the heat  
3       insulating means is an elastic material having a hollow  
4       portion formed therein.

1           **Claim 5 (currently amended):** A pressure sensor as set  
2       forth in ~~any of Claims 1 to 4~~claim 1, wherein the heat  
3       insulating means is made to double as the covering layer.

1           **Claim 6 (currently amended):** A pressure sensor as set  
2       forth in ~~any of Claims 1 to 5~~claim 1, wherein the heat  
3       insulating means comprises a mounting portion for mounting  
4       the pressure sensor on an equipment base material.

1           **Claim 7 (currently amended):** A pressure sensor  
2       fabricating method for fabricating the pressure sensor set  
3       forth in ~~any of Claims 1 to 6~~claim 1, comprising a step of  
4       molding a heat insulating means on the periphery of the  
5       sensor unit through extrusion molding.

1           **Claim 8 (currently amended):** An object detecting  
2       system comprising the pressure sensor set forth in ~~any of~~  
3       Claims 1 to 6claim 1 and determination means for  
4       determining on the contact of a foreign matter with the  
5       pressure sensor based on an output signal of the pressure

6       sensor, whereby the contact of an object with the equipment  
7       is detected.

1           **Claim 9 (currently amended):** An object detecting  
2       system comprising:

3           the pressure sensor set forth in ~~any of Claims 1 to~~  
4       claim 1 that is mounted either on an edge of an opening of  
5       equipment or on an edge of a closing member which opens and  
6       closes the opening; and

7           determination means for determining on the contact of  
8       a foreign matter with the pressure sensor based on an  
9       output signal of the pressure sensor, whereby the trapping  
10      of a foreign matter between the opening and the closing  
11      member is detected.